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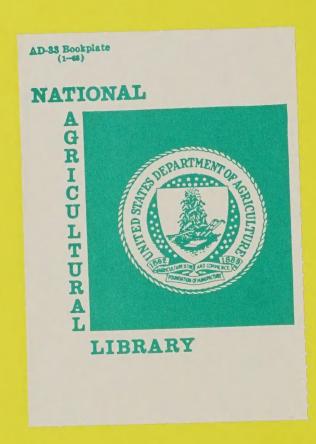
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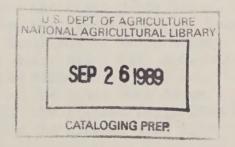
Washington

United States Standards for Beans



UNITED STATES STANDARDS FOR BEANS

United States Department of Agriculture Federal Grain Inspection Service P.O. Box 96454 Washington, D.C. 20090-6454



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UNITED STATES STANDARDS FOR BEANS 1/

Effective June 4, 1982

TERMS DEFINED

\$ 68.101 Beans

Beans shall be dry threshed field and garden beans, whole, broken, and split, commonly used for edible purposes.

§ 68.102 Classes 2/

Beans shall be divided into classes as follows, each of which, except Mixed beans, may contain not more than 2.0 percent of beans of contrasting classes and not more than 15.0 percent of beans of other classes that blend:

<u>Pea beans</u> (the type as grown in the Great Lakes region know also as Navy beans).

Blackeye beans (cowpeas of the Blackeye variety).

<u>Cranberry beans</u> (known also as Speckled Cranberry and Horticultural Pole).

Yelloweye beans.

<u>Pinto beans</u> (including the Mexican Pinto type but not the type known as Spotted Red Mexican).

Marrow beans (not including Red Marrow).

Great Northern beans.

<u>Small White beans</u> (the type as grown on the Pacific coast, not including Tepary beans).

Flat Small White beans (the type as grown in northern Idaho).

White Kidney beans.

 $[\]underline{1}$ /Compliance with the provisions of these standards does not excuse failure to comply with the provisions of the Federal Food, Drug, and Cosmetic Act, or other Federal Laws.

²/The use of a variety name in the designation of the class of beans does not imply any guarantee of varietal purity.

<u>Light Red Kidney beans</u>.

Dark Red Kidney beans.

 $\underline{\operatorname{Small}}$ $\underline{\operatorname{Red}}$ $\underline{\operatorname{beans}}$ (know also as Red Mexican, California Red, and Idaho Red).

Pink beans.

Black Turtle Soup beans.

Mung beans.

<u>Miscellaneous beans</u>: Beans that are not otherwise classified in these standards shall be classified and designated according to the commonly accepted commercial name of such beans.

<u>Large Lima beans</u> (characteristic of the Large White Pole and Burpee Bush Lima type).

<u>Baby Lima beans</u> (characteristic of Small White Lima beans of the Henderson Bush and similar types).

<u>Miscellaneous Lima beans</u>: Lima beans that do not come within the classes Large Lima or Baby Lima shall be classified and designated according to their commonly accepted commercial name.

Mixed beans: Mixed beans shall be any mixture of beans not provided for in the classes listed above.

§ 68.103 Grades.

Grades shall be the numerical grades, substandard grades, sample grades, and special grades provided for in §§ 68.133 through 68.142.

§ 68.104 Sound beans.

Sound beans shall be beans that are free from defects.

§ 68.105 Defects.

Defects for the classes Baby Lima and Miscellaneous Lima beans shall be damaged beans, contrasting classes, and foreign material. Defects for all other classes of beans shall be splits, damaged beans, contrasting classes, and foreign material.

§ 68.106 Splits.

Splits shall be pieces of beans that are not damaged, each of which consists of three-fourths or less of the whole bean, and shall include any sound bean the halves of which are held together loosely.

68.107 Damaged beans.

Damaged beans shall be beans and pieces of beans that are damaged by frost, weather, disease, weevils, or other insects, or other causes.

§ 68.108 Badly damaged beans.

Badly damaged beans shall be beans and pieces of beans that are materially damaged or discolored by frost, weather, disease, weevils or other insects, or other causes so as to materially affect the appearance and quality of the beans.

§ 68.109 Foreign material.

Foreign material shall be stones, dirt, weed seeds, cereal grains, lentils, peas, and all matter other than beans.

§ 68.110 Stones.

Stones shall be concreted earthy or mineral matter, and other substances of similar hardness that do not disintegrate readily in water,

§ 68.111 Contrasting classes.

Contrasting classes shall be beans of other classes that are of a different color, size, or shape from the beans of the class designated.

§ 68.112 Classes that blend.

Classes that blend shall be sound beans of other classes that are similar in color, size, and shape to the beans of the class designated, and shall include white beans in the class Yelloweye which are similar in size and shape to the Yelloweye beans.

§ 68.113 Broken beans.

Broken beans shall be sound beans with some but less than one-fourth of each bean broken off or with one-fourth or more of the seedcoat removed.

\$ 68.114 Blistered beans.

Blistered beans shall be sound beans with badly blistered or burst seedcoats.

\$ 68.115 Wrinkled beans.

Wrinkled beans shall be sound beans that have deeply wrinkled seedcoats and/or are badly warped or misshapen.

8 68.116 Weevily beans.

Weevily beans shall be beans that are infested with live weevils or other insects injurious to stored beans or that contain weevil-bored beans.

§ 68.117 Clean-cut Weevil-bored beans.

Clean-cut weevil-bored beans shall be beans from which weevils have emerged, leaving a clean-cut open cavity free from larvae, webbing, refuse, mold, or stain.

§ 68.118 Well screened.

Well screened, as applied to the general appearance of beans, shall mean that the beans are uniform in size and are pratically free from such small, shriveled, underdeveloped beans, splits, broken beans, large beans, and foreign material that can be removed readily by the ordinary process of milling or screening through the proper use of sieves.

§ 68.119 (Reserved)

§ 68.120 30/64 Sieve.

A 30/64 sieve shall be a metal sieve 0.0319-inch thick perforated with round holes 0.4687 (30/64) inch in diameter which are 11/16 inch from center to center. The perforations of each row shall be staggered in relation to the adjacent rows.

§ 68.121 28/64 Sieve.

A 28/64 sieve shall be a metal sieve 0.0319-inch thick perforated with round holes 0.4375 (28/64) inch in diameter which are 19/32 inch from center to center. The perforations of each row shall be staggered in relation to the adjacent rows.

§ 68.122 24/64 Sieve

A 24/64 sieve shall be a metal sieve 0.0319 inch thick perforated with round holes 0.3750 (24/64) inch in diameter which are 17/32 inch from center to center. The perforations of each row shall be staggered in relation to the adjacent rows.

68.129 (Reserved).

PRINCIPLES GOVERNING APPLICATION OF STANDARDS

§ 68.130 Basis of Determination.

The determination of "color" including "off-color" shall be upon the basis of the beans after the removal of defects. All other determinations shall be upon the basis of the beans as a whole.

§ 68.131 Percentages.

All percentages shall be determined upon the basis of weight, and shall be stated in terms of whole, tenths, and hundredths of a percent as required for individual factors.

§ 68.132 Moisture.

Moisture shall be determined by the use of equipment and procedures prescribed by the Federal Grain Inspection Service, U.S. Department of Agriculture, or determined by any method that gives equivalent results. (Information thereon may be obtained from said Service.)

GRADES, GRADE REQUIREMENTS, GRADE DESIGNATIONS, SPECIAL GRADES AND

SPECIAL GRADE REQUIREMENTS

68.133 Grades, grade requirements, special grades and special grade requirements for the class Pea Beans

TOTAL TOTA		**	**					PERCE	INI	PERCENT MAXIMUM LIMITS	IMI,	TS OF -	,		
SPECIAL GRADE GENERAL DEFECTS						TOTAL	"		••					. **	
### SADE APPEAR TOTAL damaged, SADE TOTAL GRADE STORES STORE	SPECIAL GRADE	: GENER	AL :		••	DEFECTS	**		**	FOREIGN	MA	ERIAL	- CON-	-	
S. Choice Handpicked SHALL NOT: 18.0 Trasting classes, BADLY : TOTAL Splits Stones Shall NOT: 18.0 Splits	and	: APPEA	 -	MOISTUR	 ໝ	(Total damaged,	**		••		**		: TRASTING	**	CLASSES
Splits S	GRADE	· ANCE	••	1/	**	Total foreign	••	BADLY				TONES	: CLASSES	-	THAT
Splits Spli			••		**	material, Con-	••	DAMAGE		(includes	••		12/	-	BLEND
S. Choice Handpicked SHALL NOT: 18.0 1.5		**	••		••		-		**				**	**	3/
S. Choice Handpicked SHALL NOT: 18.0		••				Splits)	••						**		
S. Choice Handpicked SHALL NOT: 18.0 1.5		••	••		**		••		**		••		**	**	
S. Prime Handpicked OFF 18.0 3.0 0.3 0.01 S. No. 1 18.0 18.0 2.0 2.0 0.4 S. No. 2 18.0 18.0 3.0 0.8 S. Substandard 18.0 18.0 18.0 18.0 18.0 18.0 Sample grades U.S. Choice Handpicked Sample grades Beans which are not well Sample grade Sample grades U.S. Choice Handpicked Sample grade Sample grade Sams which are not well Sample grade Sample grade Sample grade Sample grade Sample grade Sams which are not well Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade Sample grade		: SHALL N	OT:		**	₹.5	**	0.3	**	0.01	••	0.01	: 0.01	••	2.0
S. No. 1		: GRADE	6.7		••		••		**		••		**	-	
S. No. 1	S. Prime	: OFF	**			3.0	**	0.3	**	0.01	••	0.01	: 0.01	••	2.0
S. No. 1		: COLOR	••		••		**		-		_		_	**	
S. No. 2 S. Substandard C. H. T. C. C. H. T. C. C. L. S. Substandard shall be beans which of E. F. F. C. C. L. C.	.S. No.				••	2.0	••	2.0	••	4.0	**	0.2	. 0.5	**	4.0
S. Substandard ODE S: 18.0 : 18.0 : 3.0 : 3.0 : 0.8 COE S: FE E : 18.0 : U.S. Substandard shall be beans which in the present of the presen		**	**		**		••		**				**	••	
S. Substandard BY R R R BY R R BY R R R	. No.	 ЯО,	••		**	3.0	**	3.0	**	8.0		4.0	1.0	-	4.0
S. Substandard BR R R CHER R		E			••		••		••		••		••	**	
S. Sample grade : for the grades U.S. Choice Handpicked through U.S. N Sample grade. Beans which are not well screened shater the require state of H. S. Sample grade. Sample grade shall be beans which meet the require state state of H. S. Sample grade shall be beans which are musty, so sample grade shall be beans which have any common hard state state state state and some state sta		II			**		sha	11 be	be a	ns which	op	not mee	t the requ	ulr	ements
S. Sample grade : E F D : Substandard, except for beans which meet the require : Substandard, except for beans which meet the require : C E D : Sample grade : Sample grade shall be beans which are musty, so : L D E C : I S O : U.S. Sample grade shall be beans which are musty, so : D E C C C : I S O : U.S. Sample grade shall be beans which are musty, so : D E C C C C : Materially weathered, or weevily; which have any come : D E C C C C C C C C C C C C C C C C C C		ЕВ			••	the grades		Choice	Ha		thr	ough U.	No. 2	0 1	U.S.
S. Sample grade : Sample grade shall be beans which meet the require : Sample grade shall be beans which are musty, so : 18.0 : U.S. Sample grade shall be beans which are musty, so : M M M M M M M M M M M M M M M M M M		ΤΞ			**	grade.	eans	which	8 11	e not wel		creened	shall	also	be U.S.
S. Sample grade : Sample grade. S. Sample grade shall be beans which are musty, so to A to B to B to B to B to B to B to		¥			**			for be	ans	which me	e t		uirements	for	r U.S.
S. Sample grade : H R R : : 18.0 : U.S. Sample grade shall be beans which are musty, so : C R C : 18.0 : U.S. Sample grade shall be beans which are musty, so : D R C : : materially weathered, or weevily; which have any com : D R C : : objectionable odor; which contain insect webbing or : : filth, any unknown foreign substance, broken glass, : : fragments; or which are otherwise of distinctly low : : : :		ED	••		••										
S. Sample grade : H G G G G G G G G G G G G G G G G G G		ΒΓI	••		••										
H H : materially weathered, or weevily; which have any com com contain insect webbing or contain contains conta	.S. Sample	4 A	**		***	.S. Sample	e sh	all be	þe	ans which	et	e musty	, sour, heating,	eat	ing,
A A A A B B B B B B B B B B B B B B B B		Ε	**		••	materially weath	ered	, or w	eev	ily; whic	h h	ave any	commercially	a 1 1	b
: : filth, any unknown foreign substance, broken glass,		a :	**		••	objectionable odd	or:	which	con	tain inse	C t	webbing	or filth, animal	es .	nimal
: : fragments; or which are otherwise of distinctly low : :		K A N	**		**	any	an f	oreign	su	bstance,	bro	ken gla	ss, or metal	ta1	
		ĭ	••		**	0 1	lch	are ot	her	of	ist		low quality	ty.	
			••		••										

1/ Beans with more than 18.0 percent moisture are graded High moisture. 2/ Beans with more than 2.0 percent contrasting classes are graded Mixed beans. 3/ Beans with more than 15.0 percent classes that blend are graded Mixed beans.

§ 68.134 Grades and grade requirements for the class Blackeye Beans

	CLASSES THAT BLEND	5.0	10.0	15.0	
				• ••	
	: CON- : TRASTING : CLASSES	0.5	1.0	2.0	Sample grade. Substandard, Substandard, The grade. Sample grade. The grade. The grade. The grade. The grade.
		•• •• ••	••	• • •	Sample Substan Substan . Sample ur, heat merciall filth, a or metal quality.
	STONES	0.2	4.0	9.0	U.S. Sample grad U.S. Substandard U.S. Sample gra U.S. Sample gra ', sour, heating, ', commercially ', or filth, anima 'ss, or metal low quality.
	le s	** ** **	• ••		neet or U for U for U isty, any sing glass.
IMITS OF	: FOREIGN MATERIAL : : TOTAL : STONES : (includes: Stones) :		. 1.0	ν. 	indard shall be beans which do not meet the requirements des U.S. No. 1 through U.S. No. 3 or U.S. Sample grade. I are not well screened shall also be U.S. Substandard, beans which meet the requirements for U.S. Sample grade grade shall be beans which are musty, sour, heating, weathered, or weevily; which have any commercially ile odor; which contain insect webbing or filth, animal unknown foreign substance, broken glass, or metal or which are otherwise of distinctly low quality.
JM II.					uch u.S. shal quir hich inse- ce,
MAXIMUM LIMITS	CLEAN CUT WEEVIL BORED	0.0	0.2	5.0	ndard shall be beans which of des U.S. No. 1 through U.S. are not well screened shall beans which meet the require weathered, or weevily; which unknown foreign substance, lor which are otherwise of di
PERCENT					o b c c c c c c c c c c c c c c c c c c
PERC	TOTAL	2.0	4.0	6.0	shall be S. No. 1 out well s which mee shall be ired, or w ir; which n foreign ch are ot
	· · · · · · · · · · · · · · · · · · ·	•• •• •	• •	** ** *	d sh. U.S. U.S. s wh de s dor; own
	TOTAL DEFECTS (Total damaged, Total foreign material, Con- trasting classes, Splits)		0.9	0.	for the grades U.S. No. 1 through U.S. No. 3 or U.S. Beans which are not well screened shall also be U.S. except for beans which meet the requirements for U.S. Sample grade shall be beans which are musty, so materially weathered, or weevily; which have any contobjectionable odor; which contain insect webbing or filth, any unknown foreign substance, broken glass, fragments; or which are otherwise of distinctly low
	JRE			0	
	MOISTURE	18.0	18.0	18.	18.0
**	.' e .	•• ••	•• ••	** **	TOTAL DEFECTS
	GENERAL APPEAR- ANCE			SEWOAN COPOE	BE APPLIED AFTER THE F
**		** **	••	••	
					Substandard Sample grade
	GRADE	٠.	. 2	m	Substa. Sample
	ტ დ	0 Z	No N	No No	
		u.s	U.S	U.S	S. U. S.

Beans with more than 0.5 percent clean cut weevil bored beans are graded U.S. Sample grade 1/ Beans with more than 18.0 percent moisture are graded High moisture. 2/ Beans with more than 0.5 percent clean cut weevil bored beans are graded U.S. 3/ Beans with more than 2.0 percent contrasting classes are graded Mixed beans. 4/ Beans with more than 15.0 percent classes that blend are graded Mixed beans. Beans with more than 18.0 percent moisture are graded High moisture.

§ 68.135 Grades and grade requirements for the classes Yelloweye Beans and Cranberry Beans

1/ Beans with more than 18.0 percent moisture are graded High moisture. 2/ Beans with more than 2.0 percent contrasting classes are graded Mixed beans. 3/ Beans with more than 15.0 percent classes that blend are graded Mixed beans.

68.136 Grades and grade requirements for the class Pinto Beans

	•• •	•• •	PERCENT MAXIMUM LIMITS OF
			TOTAL : : FOREIGN MATERIAL : :
	: APPEAR-	. MOISTURE	
GRADE	: ANCE	· 1	: Total foreign : TOTAL : TOTAL : STONES : TRASTING : THAT
	**	••	: material, Con- : DAMAGED : (includes: : CLASSES : BLEND
	**	**	: trasting classes, : : Stones) : : $2/$: $3/$
		**	: Splits) : :
U.S. No. 1	•• ••	18.0	3.0 : 3.0 : 0.5 : 0.2 : 0.5 : 5.0
	0 E V X	**	
U.S. No. 2		: 18.0	: 5.0 : 1.0 : 0.4 : 1.0 : 10.0
		**	
U.S. No. 3	емо Сог	: 18.0	; 7.0 ; 1.5 ; 0.6 ; 2.0 ; 15.0
U.S. Substandard		: 18.0	: U.S. Substandard shall be beans which do not meet the requirements
		••	: for the grades U.S. No. 1 through U.S. No. 1 or U.S. Sample grade.
	EE	_	Beans which are not well screened shall also be U.S. Substandard,
	/LJ	**	except for beans which meet the requirements for U.S. Sample grade.
	7 0	•=	
U.S. Sample grade		: 18.0	: U.S. Sample grade shall be beans which are musty, sour, heating,
	br be	••	materially weathered, or weevily; which have any commercially
	d ₩	••	: objectionable odor; which contain insect webbing or filth, animal
	LOY THI		: filth, any unknown foreign substance, broken glass, or metal
	I	••	i fragments; or which are otherwise of distinctly low quality.
	**	**	

1/ Beans with more than 18.0 percent moisture are graded High moisture. 2/ Beans with more than 2.0 percent contrasting classes are graded Mixed beans. 3/ Beans with more than 15.0 percent classes that blend are graded Mixed beans.

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68.137 Grades and grade requirements for the classes Marrow, Great Northern, Small White, Flat Small White, White Kidney, Light Red Kidney, Dark Red Kidney, Small Red, Pink, Black Turtle Soup, and Miscellaneous Beans

Samp		BE APPLIED AFTER THE REMOVAL OF RAPELLED AFTER THE RA	MOISTURE 18.0 18.0 18.0	: TOTAL : DEFECTS : (Total damaged, : Total foreign : material, Con- : trasting classes, : Splits) : 2.0 : 6.0 : 6.0 : for the grades U.S. Beans which are not except for beans which are not except for beans which are not except for beans which any unknown fragments.	TOTAL : FOREIGN MA': : TOTAL : TOTAL : 5 : DAMAGED : (includes: : 5.0 : 0.5 :: : 4.0 : 1.0 :: : 6.0 : 1.5 :: : hall be beans which do t well screened shall a hich meet the requirement or weevily; which ar ed, or weevily; which h thich contain insect foreign substance, bro	TERIAL :: O.2 :: O.4 :: O.6 :: IERIAL :: O.7 :: O.6 :: Inch meet Inch	ASTING: ASSES: ASSES: .0. Sample Substan . Sample . Sample . Sample . Theat . Theat . Theat . Theat	CLASSES THAT BLEND 3/ 10.0 15.0 15.0 dard, grade. grade.	TOTAL	0.1 : 2.0 : 2.0 : 0.5 :	0. 2 18.0 4.0 1.0 0.4 1.0	0.3 18.0 6.0 1.5 0.6 2.0	H : 18.0 : U.S. Substandard shall be beans which do not meet the	F : Beans which are not well screened shall also be U.S. Substand F H : except for beans which meet the requirements for U.S. Sample		Here is a contained of the contain insect webbing or the contained of
------	--	--	----------------------------------	--	---	--	---	--	-------	---	---------------------------	--------------------------	--	--	--	--

1/ Beans with more than 18.0 percent moisture are graded High moisture. 2/ Beans with more than 2.0 percent contrasting classes are graded Mixed beans. 3/ Beans with more than 15.0 percent classes that blend are graded Mixed beans. Beans with more than 15.0 percent classes that blend are graded Mixed beans.

§ 68.138 Grades and grade requirements for the class Mung Beans

	CLASSES THAT BLEND	5.0	15.0	
	: CON-: TRASTING : . CLASSES :	0.5		ins, Ly animal
	ATERIAL		: 0.6 : 2.0 it the requirements U.S. Sample grade. U.S. Substandard, U.S. Sample grade	sour, heating, commercially or filth, animals, or metal ov quality.
IMITS OF	: FOREIGN MATERIAL : TOTAL : STONES : (includes: Stones) :		: 1.5 :: do not meet No. 3 or U. l also be U. ements for U	are musty, h have any ct webbing broken glas
PERCENT MAXIMUM LIMITS	: CLEAN : CUT : WEEVIL : BORED : 2/	. 0 0 0 . 2 . 2	6.0 : 0.5 : 1.5 11 be beans which do not No. 1 through U.S. No. 3 well screened shall also ch meet the requirements	oeans which svily; which nate in insetuble tance, srwise of d
PERCENT	: : TOTAL : DAMAGED :	 0	: 6.0 : hall be be S. No. 1 th ot well scr	shall be bred, or weer; which conforeign scheen
	TOTAL DEFECTS (Total damaged, Total foreign material, Con- trasting classes, Splits)	2 . 0	6.0 : 6.0 : 0.5 : 1.5 : 0.6 : : : : : : : : : : : : : : : : : : :	U.S. Sample grade shall be beans which are musty, sour, heating, materially weathered, or weevily; which have any commercially objectionable odor; which contain insect webbing or filth, anima filth, any unknown foreign substance, broken glass, or metal fragments; or which are otherwise of distinctly low quality.
	MOISTURE :	18.0		
	GENERAL : APPEAR - : ANCE : :		AFTER THE REMO	THE SPECIAL BE APPLIED TOTAL DEFEC
	GRADE	No. 1	No. 3 :: Substandard ::	S & & & & & & & & & & & & & & & & & & &
		u.s.	U.S.	D S

Sample grade Beans with more than 0.5 percent clean cut weevil bored beans are graded U.S. with more than 2.0 percent contrasting classes are graded Mixed beans. 1/ Beans with more than 18.0 percent moisture are graded High moisture. 2/ Beans with more than 0.5 percent clean cut weevil bored beans are gra3/ Beans with more than 2.0 percent contrasting classes are graded Mixed 4/ Beans with more than 15.0 percent classes that blend are graded Mixed

Beans with more than 15.0 percent classes that blend are graded Mixed beans.

68.139 Grades and grade requirements for the classes Large Lima Beans

					LEKCENI	PERCENT MAXIMUM LINITS	INITS OF				
	**			: TOTAL BLISTERED :							
	: GENERAL	••		: WRINKLED AND :		FOREIGN MATERIAL	MATERIAL				
GRADE	: APPEAR-	**	MOISTURE	:DEFECTS (Blistered,:	DAMAGED	••	**	CON-			CLA
	· ANCE	-	1/	: wrinkled, Total :	BEANS	: TOTAL	: STONES	TRASTING	••		THI:
	••	-		: damage, Total :		: (includes:	·· v)	CLASSES	: SPLITS:	BROKEN	1 BL
		**		: foreign material, :	: BADLY :	Stones)	-	12/	••		ოI
	••	••		: Contrasting :	TOTAL : DAMAGED:	**	**		••		••
	•			: classes, Splits) :	••	••	••		••		••
	 A	••		**							••
U.S. No. 1		**	18.0	. 0.9	2.0 1 0.5 :	0.5	: 0.2	0.5	3.0 :	5.0	
	HI	••		••			**				***
U.S. No. 2		**	18.0	0.6	3.0 : 1.0 :	1.0	. 0 . 3	1.0	1 5.0 :	5.0	: 10
U.S. Substandard	DE C		18.0		. dd	2 2 2	4 4 9	4 6 7 7	•• 10 e	- = = = = = = = = = = = = = = = = = = =	- =
	 GRA ED	••		: No. 2, or U.S. Sample grade.	grade. Beans	which ar	Beans which are not well screened shall also be U.S.	screened s	hall also		Subs.
	IT	••		: beans which meet the	requireme	r U.S. Sa	mple grade.				
U.S. Sample grade	ECIV		18.0	: U.S. Sample grade shall be	111 be beans wh	lich are m	beans which are musty, sour, heating, materially weathered,	heating,	material.	ly weath	er ed,
	BE			: have any commercially objectionable odor; which contain insect webbing or filth, animal	r objectionable	odor; wh	ich contair	insect we	bbing or	filth,	animal
	 THE	_		: foreign substance, br	substance, broken glass, or metal fragements; or which are otherwise of distinc	metal fr	agements; c	r which ar	e otherw	ise of d	istinc

 $\underline{1}/$ Beans with more than 18.0 percent moisture are graded High moisture. $\underline{2}/$ Beans with more than 2.0 percent contrasting classes are graded Mixed beans $\underline{3}/$ Beans with more than 15.0 percent classes that blend are graded Mixed beans.

68.140 Grades and grade requirements for the classes Baby Lima and Miscellaneous Lima Beans

: : PERCENT MAXIMUM LIMITS OF -	GENERAL CENERAL CLASSES FOREIGN MATERIAL BLISTERED CLASSES CLA	18.0 2.0 1.0 0.5 0.5 3.0 5.0 5.0 10.0 0.3 1.0 5.0 10.0	DE OLE-CO	THE SPECIAL CRAIR APPLIED AFTER TOTAL DEFECTS TOTAL DEFECTS 100 100 110 110 110 110 110 1
	GENERA GENERA APPEAE ANCE			THE SPECIAL CRAI
	GRADE	U.S. No. 1 U.S. No. 2	U.S. No. 3	U.S. Sample grade

1/ Beans with more than 18.0 percent moisture are graded High moisture. 2/ Beans with more than 2.0 percent contrasting classes are graded Mixed beans. 3/ Beans with more than 15.0 percent classes that blend are graded Mixed beans.

1 68.141 Grade Designations.

The grade designation for all classes of beans shall include in the following order:

- (a) the letters "U.S.";
- (b) the name or number of the grade or the name of any applicable special grade designation as appears in § 68.142(a) and (b);
- (c) the class, and in the case of Mixed beans, the name and percentage of each class in the mixture; and
- (d) the special grade designations, if applicable, as appears in $\S 68.142(c)$ and (d).

In addition, the designation for the grade "U.S. Substandard" shall include the percentage of sound beans. Mixed beans shall be graded according to the grade requirements of the class of beans which predominates in the mixture. The factors of contrasting classes, classes that blend and sieve size requirements in the class Large Lima beans shall be disregarded in Mixed beans.

§ 68.142 Special Grade Designations.

- (a) <u>Choice handpicked</u>. The special grade designation "Choice handpicked" shall be applicable only to the class Pea beans. The "Choice handpicked" designation shall include in the following order:
 - (1) the letters "U.S.";
 - (2) the words "Choice handpicked"; and
 - (3) "Pea beans".
- (b) <u>Prime handpicked</u>. The special grade designation "Prime handpicked" is applicable only to the class Pea beans. The "Prime handpicked" designation shall include in the following order:
 - (1) the letters "U.S.";
 - (2) the words "Prime handpicked"; and
 - (3) "Pea beans."
- (c) <u>High moisture</u>. The special grade designation "High moisture" is applicable to all classes of beans containing over 18.0 percent moisture. The words "high moisture" and the percentage of moisture shall follow the class name.

(d) Off-color. The special grade designation "Off-color" shall be applicable to all classes of beans that upon the removal of total defects, are distinctly off-color due to age or any other natural cause but are not materially weathered. The words "off-color" shall follow the name of the class. The special grades "Choice handpicked", "Prime handpicked", and the grade "U.S. No. 1", in the class Pea beans shall not be applied if the beans are determined to be off-color.



